

**EXHIBIT B**

***Modification Application for WPXM-DT***  
(FCC File No. BPCDT-19991020ACC)

DOW, LOHNES & ALBERTSON, PLLC  
ATTORNEYS AT LAW

STAMP & RETURN

SCOTT S. PATRICK  
DIRECT DIAL 202-776-2885  
spatrick@dialaw.com

WASHINGTON, D.C.  
1200 NEW HAMPSHIRE AVENUE, N.W. • SUITE 800 • WASHINGTON, D.C. 20036-6802  
TELEPHONE 202-776-2000 • FACSIMILE 202-776-2222

ONE RAVINIA DRIVE • SUITE 1600  
ATLANTA, GEORGIA 30346-2108  
TELEPHONE 770-901-8800  
FACSIMILE 770-901-8874

October 20, 1999

**VIA BERRY BEST**

Federal Communications Commission  
Mass Media Services  
P.O. Box 358165  
Pittsburgh, Pennsylvania 15251-5165

FCC/MELLON  
OCT 20 1999

Attention: Stop Code 1800E1  
Television Branch

Re: **FACILITY ID No. 48608**  
Television Station WPXM(TV), Miami, Florida  
Application for Digital Television Facilities

Dear Sir or Madam:

On behalf of Paxson Communications License Company, LLC ("Paxson"), licensee of Television Station WPXM(TV), Miami, Florida, we submit herewith, in triplicate, an application for authority to construct digital television facilities on DTV Channel 26. This application is filed pursuant to a settlement agreement between Paxson and NBC Stations Management, Inc.

A check in the amount of \$725.00, accompanied by FCC Form 159, is enclosed to cover the filing fee.

Kindly direct any questions concerning this filing to the undersigned.

Respectfully submitted,



Scott S. Patrick

SSP2/prm3  
Enclosure

FOR  
FCC  
USE  
ONLY

## FCC 301

### APPLICATION FOR CONSTRUCTION PERMIT FOR COMMERCIAL BROADCAST STATION

FOR COMMISSION USE ONLY  
FILE NO.

#### Section I - General Information

1. Legal Name of the Applicant		
Paxson Communications License Company, LLC		
Mailing Address		
601 Clearwater Park Road		
City	State or Country (if foreign address)	ZIP Code
West Palm Beach	FL	33401
Telephone Number (include area code)	E-Mail Address (if available)	
(561) 659-4122		
	Call Sign	Facility ID Number
	WPXM (TV)	48608

2. Contact Representative (if other than applicant)	Firm or Company Name
Scott S. Patrick, Esq.	Dow, Lohnes & Albertson, PLLC
Telephone Number (include area code)	E-Mail Address (if available)
(202) 776-2000	

3. If this application has been submitted without a fee, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114):

☐ Governmental Entity ☐ Other \_\_\_\_\_

#### 4. Application Purpose.

- ☐ New station ☐ Major Modification of construction permit  
☐ Major Change in licensed facility ☐ Minor Modification of construction permit  
☒ Minor Change in licensed facility ☐ Major Amendment to pending application  
☐ Minor Amendment to pending application

a. File number of original construction permit: \_\_\_\_\_ ☒ N/A

b. Service Type: ☐ AM ☐ FM ☐ TV ☒ DTV

c. Community of License:

City	State
Miami	FL

d. Facility Type: ☒ Main ☐ Auxiliary

If an amendment, submit as an Exhibit a listing by Section and Question Number of the portions of the pending application that are being revised.

Exhibit No.

**NOTE:** In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.

## Section II - Legal

1. **Certification.** Applicant certifies that it has answered each question in this application based on its review of the application instructions and worksheets. Applicant further certifies that where it has made an affirmative certification below, this certification constitutes its representation that the application satisfies each of the pertinent standards and criteria set forth in the application instructions and worksheets. ☒ Yes ☐ No

2. **Parties to the Application.**

- a. List the applicant, and, if other than a natural person, its officers, directors, stockholders with attributable interests, non-insulated partners and/or members. If a corporation or partnership holds an attributable interest in the applicant, list separately its officers, directors, stockholders with attributable interests, non-insulated partners and/or members. Create a separate row for each individual or entity. Attach additional pages if necessary.

- |   |   |
|---|---|
| (1) Name and address of the applicant and, if applicable, its officers, directors, stockholders, or partners (if other than individual also show name, address and citizenship of natural person authorized to vote the stock). List the applicant first, officers next, then directors and, thereafter, remaining stockholders and partners. | (2) Citizenship.<br>(3) Positional Interest: Officer, director, general partner, limited partner, LLC member, etc.<br>(4) Percentage of votes.<br>(5) Percentage of equity. |
|---|---|

(1)	(2)	(3)	(4)	(5)

- b. Applicant certifies that equity interests not set forth above are non-attributable.

☐ Yes ☐ No

☐ N/A

See Explanation  
in Exhibit No.

3. **Other Authorizations.** List call signs, locations, and facility identifiers of all other broadcast stations in which applicant or any party to the application has an attributable interest.

Exhibit No.

☐ N/A

4. **Multiple Ownership.**

- a. Applicant certifies that the proposed facility:

☐ Yes ☐ No


See Explanation  
in Exhibit No.

1. complies with the Commission's multiple and cross-ownership rules;
2. does not present an issue under the Commission's cross-interest policy;
3. does not present an issue under the Commission's policies relating to media interests of immediate family members;
4. complies with the Commission's policies relating to future ownership interests; and
5. complies with the Commission's restrictions relating to the insulation and non-participation of non-party investors and creditors.

## Section II - Legal

- b. **Radio Applicants Only.** If the grant of the application would result in certain principal community service contour overlaps, see Local Radio Ownership Worksheet, Question 1, applicant certifies that all relevant information has been placed in public inspection file(s) and submitted to the Commission. ☐ Yes ☐ No ☐ N/A See Explanation in Exhibit No.
5. **Character Issues.** Applicant certifies that neither applicant nor any party to the application has or has had any interest in, or connection with: ☐ Yes ☐ No See Explanation in Exhibit No.
- a. any broadcast application in any proceeding where character issues were left unresolved or were resolved adversely against the applicant or party to the application; or
- b. any pending broadcast application in which character issues have been raised.
6. **Adverse Findings.** Applicant certifies that, with respect to the applicant and any party to the application, no adverse finding has been made, nor has an adverse final action been taken by any court or administrative body in a civil or criminal proceeding brought under the provisions of any law related to the following: any felony; mass media-related antitrust or unfair competition; fraudulent statements to another governmental unit; or discrimination. ☐ Yes ☐ No See Explanation in Exhibit No.
7. **Alien Ownership and Control.** Applicant certifies that it complies with the provisions of Section 310 of the Communications Act of 1934, as amended, relating to interests of aliens and foreign governments. ☐ Yes ☐ No See Explanation in Exhibit No.
8. **Program Service Certification.** Applicant certifies that it is cognizant of and will comply with its obligations as a Commission licensee to present a program service responsive to the issues of public concern facing the station's community of license and service area. ☐ Yes ☐ No
9. **Local Public Notice.** Applicant certifies that it has or will comply with the public notice requirements of 47 C.F.R. Section 73.3580. ☐ Yes ☐ No
10. **Auction Authorization.** If the application is being submitted to obtain a construction permit for which the applicant was the winning bidder in an auction, then the applicant certifies, pursuant to 47 C.F.R. Section 73.5005(a), that it has attached an exhibit containing the information required by 47 C.F.R. Sections 1.2107(d), 1.2110(i), 1.2112(a) and 1.2112(b), if applicable. ☐ Yes ☐ No ☐ N/A
- Exhibit No.
- An exhibit is required unless this question is inapplicable.**
11. **Anti-Drug Abuse Act Certification.** Applicant certifies that neither applicant nor any party to the application is subject to denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862. ☒ Yes ☐ No

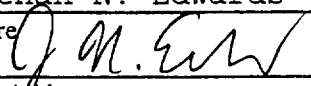
I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith. I acknowledge that all certifications and attached Exhibits are considered material representations. I hereby waive any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and request an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

Typed or Printed Name of Person Signing William L. Watson	Typed or Printed Title of Person Signing Secretary
Signature 	Date October 19, 1999

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT  
 (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT  
 (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

**SECTION III PREPARER'S CERTIFICATION**

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name Jonathan N. Edwards		Relationship to Applicant (e.g., Consulting Engineer) Technical Consultant	
Signature 		Date October 19, 1999	
Mailing Address du Treil, Lundin & Rackley, Inc., 201 Fletcher Avenue			
City Sarasota		State or Country (if foreign address) Florida	ZIP Code 34237
Telephone Number (include area code) (941) 329-6000		E-Mail Address (if available) jon@dlr.com	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT  
(U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT  
(U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

### SECTION III-D - DTV Engineering

**Complete Questions 1-5 of the Certification Checklist and provide all data and information for the proposed facility, as requested in Technical Specifications, Items 1-13.**

**Certification Checklist:** A correct answer of "Yes" to all of the questions below will ensure an expeditious grant of a construction permit. However, if the proposed facility is located within the Canadian or Mexican borders, coordination of the proposal under the appropriate treaties may be required prior to grant of the application. An answer of "No" will require additional evaluation of the applicable information in this form before a construction permit can be granted.

1. The proposed DTV facility complies with 47 C.F.R. Section 73.622 in the following respects:
  - (a) It will operate on the DTV channel for this station as established in 47 C.F.R. Section 73.622. ☒ Yes ☐ No
  - (b) It will operate from a transmitting antenna located within 5.0 km (3.1 miles) of the DTV reference site for this station as established in 47 C.F.R. Section 73.622. ☐ Yes ☒ No
  - (c) It will operate with an effective radiated power (ERP) and antenna height above average terrain (HAAT) that do not exceed the DTV reference ERP and HAAT for this station as established in 47 C.F.R. Section 73.622. ☐ Yes ☒ No
2. The proposed facility will not have a significant environmental impact, including exposure of workers or the general public to levels of RF radiation exceeding the applicable health and safety guidelines, and therefore will not come within 47 C.F.R. Section 1.1307. ☒ Yes ☐ No  
  
Applicant must **submit the Exhibit** called for in Item 13.
3. Pursuant to 47 C.F.R. Section 73.625, the DTV coverage contour of the proposed facility will encompass the allotted principal community. ☒ Yes ☐ No
4. The requirements of 47 C.F.R. Section 73.1030 regarding notification to radio astronomy installations, radio receiving installations and FCC monitoring stations have either been satisfied or are not applicable. ☒ Yes ☐ No
5. The antenna structure to be used by this facility has been registered by the Commission and will not require reregistration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely effect safety in air navigation and this structure qualifies for later registration under the Commission's phased registration plan, OR the proposed installation on this structure does not require notification to the FAA pursuant to 47 C.F.R. Section 17.7. ☒ Yes ☐ No

### SECTION III-D - DTV Engineering

#### TECHNICAL SPECIFICATIONS

Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

#### TECH BOX

1. Channel Number: DTV 26 Analog TV, if any 35

2. Zone: ☐ I ☐ II ☒ III

3. Antenna Location Coordinates: (NAD 27)

25° 58' 07" ☒ N ☐ S Latitude  
80° 13' 20" ☐ E ☒ W Longitude

4. Antenna Structure Registration Number: 1026553

☐ Not applicable

☐ FAA Notification Filed with FAA

5. Antenna Location Site Elevation Above Mean Sea Level: 2.4 meters

6. Overall Tower Height Above Ground Level: 317.3 meters

7. Height of Radiation Center Above Ground Level: 276.1 meters

8. Height of Radiation Center Above Average Terrain: 279 meters

9. Maximum Effective Radiated Power (average power): 200 kW

10. Antenna Specifications:

Manufacturer	Model
Dielectric	TFU-18DSC P230

b. Electrical Beam Tilt: 0.75 degrees ☐ Not Applicable

c. Mechanical Beam Tilt: \_\_\_\_\_ degrees toward azimuth \_\_\_\_\_ degrees True ☒ Not Applicable

Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c).

Exhibit No.  
Figure 2

d. Polarization: ☒ Horizontal ☐ Circular ☐ Elliptical



# TECH BOX

e. Directional Antenna Relative Field Values: ☐ Not applicable (Nondirectional)

Rotation \_\_\_\_\_ ° ☒ No rotation

Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	0.959	60	0.417	120	0.482	180	0.959	240	0.417	300	0.482
10	1.000	70	0.418	130	0.418	190	1.000	250	0.418	310	0.418
20	0.959	80	0.482	140	0.417	200	0.959	260	0.482	320	0.417
30	0.844	90	0.542	150	0.520	210	0.844	270	0.542	330	0.520
40	0.683	100	0.566	160	0.683	220	0.683	280	0.566	340	0.683
50	0.520	110	0.542	170	0.844	230	0.520	290	0.542	350	0.844
Additional Azimuths											

If a directional antenna is proposed, the requirements of 47 C.F.R. Section 73.625(c) must be satisfied. **Exhibit required.**

Exhibit No.  
Figure 2

11. Does the proposed facility satisfy the interference protection provisions of 47 C.F.R. Section 73.623(a)? (Applicable only if **Certification Checklist** Items 1(a), (b), or (c) are answered "No.")

☒ Yes ☐ No

If "No," attach as an Exhibit justification therefor, including a summary of any related previously granted waivers.

Exhibit No.  
N/A

12. If the proposed facility will not satisfy the coverage requirement of 47 C.F.R. Section 73.625, attach as an Exhibit justification therefor. (Applicable only if **Certification Checklist** Item 3 is answered "No.")

Exhibit No.  
N/A

13. **Environmental Protection Act. Submit in an Exhibit** the following:

Exhibit No.  
See Tech.

- a. If **Certification Checklist** Item 3 is answered "Yes," a brief explanation of why an Environmental Assessment is not required. Also describe in the Exhibit the steps that will be taken to limit RF radiation exposure to the public and to persons authorized access to the tower site.

By checking "Yes" to **Certification Checklist** Item 3, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.

If **Certification Checklist** Item 3 is answered "No," an Environmental Assessment as required by 47 C.F.R. Section 1.1311.

**PREPARER'S CERTIFICATION IN SECTION III MUST BE COMPLETED AND SIGNED.**

TECHNICAL EXHIBIT  
APPLICATION FOR DTV CONSTRUCTION PERMIT  
STATION WPXM-DT  
MIAMI, FLORIDA

October 19, 1999

CH 26      200 KW (MAX-DA)      279 M

TECHNICAL EXHIBIT  
APPLICATION FOR DTV CONSTRUCTION PERMIT  
STATION WPXM-DT  
MIAMI, FLORIDA  
CH 26      200 KW (MAX-DA)      279 M

Table of Contents

Technical Narrative

Figure 1	Antenna Sketch
Figure 2	Antenna Patterns
Figure 3	Predicted Noise-Limited Contour
Figure 4	Allocation Study
Figure 5	Technical Specifications

TECHNICAL EXHIBIT  
APPLICATION FOR DTV CONSTRUCTION PERMIT  
STATION WPXM-DT  
MIAMI, FLORIDA  
CH 26      200 KW (MAX-DA)      279 M

Technical Narrative

This Technical Exhibit supports an application for television (TV) station WPXM on NTSC (analog) channel 35 at Miami, Florida. This application requests a construction permit (CP) for a digital television (DTV) operation on channel 26 at Miami. The Federal Communications Commission (FCC) assigned channel 26 as WPXM's DTV allotment in the Memorandum Opinion and Order (MO&O) concerning reconsideration of the 6<sup>th</sup> Report and Order in MM Docket No. 87-268. The FCC assigned an ERP of 66.2 kilowatts (kW) with a directional antenna (DA) envelope and an antenna height above average terrain (HAAT) of 102 meters for the DTV allotment.

Proposed Facilities

Station WPXM proposes to operate DTV channel 26 at the North Miami "antenna farm", 33 kilometers north of its allotted DTV site (25-58-07 N, 80-13-20 W), with a DA maximum DTV ERP of 200 kW and an antenna HAAT of 279 meters. The site is located at 1255 NW 210<sup>th</sup> Street, Miami, Dade County, Florida.

The proposed WPXM DTV facilities (200 kW-DA, 279 m) comply with Section 73.622(f)(8) of the FCC rules.

A sketch of antenna and pertinent elevations is included as Figure 1. The FCC antenna registration number for the structure is 1026553.

Figure 2 are the horizontal and vertical plane radiation patterns for the proposed DTV antenna system.

Figure 3 is a map showing the predicted 41 dBu f(50,90) noise-limited contour. The average elevations from 3.2 to 16.1 kilometers from the transmitter site, were obtained from the N.G.D.C. 30-second digitized terrain database and were used for determining the distances to coverage contours. The Miami city limits were derived from information contained in the 1990 U.S. Census for Florida. The population within the predicted 41 dBu contour is based on 1990 Census information. The U.S. land area within the predicted 41 dBu contour is based on the use of a computer algorithm.

#### Nearby Broadcast Facilities

There are no known authorized full service AM stations within 3.2 kilometers (2 miles) of the proposed WPXM DTV transmitter site. The following is a list of known authorized full service FM and TV stations within 16 kilometers (10 miles) of the proposed WPXM DTV site.

FM WITHIN 16.0 KILOMETERS STUDY

Job Title :WPXM-DT

FCC DB Date : 10/08/99

Minimum Channel 200 ( 87.9 MHz)

Coordinates : 25-58-07 80-13-20

Maximum Channel 300 (107.9 MHz)

FM Records Sorted by Distance

Call Status	City State	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Distance (km)	Distance (mile)
WLYF LIC	Miami FL	BLH5032	268C1 101.5	100. 247.0	25-57-59 80-12-44	103.9	1.04	.65
WFLC LIC	Miami FL	BLH980609KF	247C 97.3	100. DA 307.0	25-58-03 80-12-34	95.6	1.30	.81
WHQT LIC	Coral Gables FL	BLH980611KB	286C 105.1	100. DA 307.0	25-58-03 80-12-34	95.6	1.30	.81
WTMI LIC	Miami FL	BLH940321KA	226C 93.1	100. DA 307.0	25-57-59 80-12-33	100.7	1.34	.83
WLVE LIC	Miami Beach FL	BMLH940613KH	230C 93.9	100. DA 307.0	25-57-59 80-12-33	100.7 SS	1.34	.83
WZTA LIC	Miami Beach FL	BMLH940613KG	235C 94.9	100. DA 307.0	25-57-59 80-12-33	100.7 SS	1.34	.83
WPOW LIC	Miami FL	BMLH940613KA	243C 96.5	100. DA 307.0	25-57-59 80-12-33	100.7	1.34	.83
WEDR LIC	Miami FL	BLH900430KA	256C1 99.1	100. 280.0	25-57-59 80-12-33	100.7	1.34	.83
WHYIFM LIC	Fort Lauderdale FL	BMLH940613KB	264C 100.7	100. DA 307.0	25-57-59 80-12-33	100.7	1.34	.83
WMXJ LIC	Pompano Beach FL	BMLH940613KF	274C 102.7	100. DA 307.0	25-57-59 80-12-33	100.7	1.34	.83
WMGE LIC	Fort Lauderdale FL	BMLH940613KC	278C 103.5	100. DA 307.0	25-57-59 80-12-33	100.7	1.34	.83
WAMRFM LIC	Miami FL	BMLH940613KD	298C1 107.5	95. DA 307.0	25-57-59 80-12-33	100.7	1.34	.83
*To Channel 298C per D90-524								
WLRNFM LIC	Miami FL	BLED850214KP	217C1 91.3	100. 198.0	25-58-48 80-11-47	63.9	2.89	1.80
WKIS LIC	Boca Raton FL	BLH871216KH	260C 99.9	100. DA 300.0	25-59-34 80-10-27	60.8	5.52	3.43

WBGGFM	Fort Lauderdale	290C	100.	DA	25-59-34	60.8	5.52	3.43
LIC	FL BLH890814KI	105.9	312.0		80-10-27			
WRMA	Fort Lauderdale	294C	100.	DA	25-59-34	60.8	5.52	3.43
LIC	FL BLH860116KB	106.7	300.0		80-10-27			

\*\* End of FM within study \*\*

TV/DTV WITHIN STUDY

Job Title :WPXM-DT  
Sorted by Distance  
Channels 2 to 69

TV/DTV Within 16.0 km  
FCC TV DB Date : 10/08/99  
Coordinates : 25-58-07 80-13-20

Call Status	City State	FCC File No.	Channel Zone	ERP(kw) HAAT(m)	Latitude Longitude	Bearing deg-True	Distance (km) (mile)
WFORTV LIC	MIAMI FL	BLCT-930129KE	4(o) III	100 304	25-58-07 80-13-20	0.00	0.00 0.00
WFOR-DT CP	MIAMI FL	BPCDT-980724KK	22 III	956 310	25-58-07 80-13-20	0.00	0.00 0.00
DIGITAL TV, ERP AS SHOWN ON CP.							
WLTV LIC	MIAMI FL	BLCT-950710KF	23(-) III	4470 DA 297	25-58-07 80-13-20	0.00	0.00 0.00
WBZL LIC	MIAMI FL	BLCT-970401LW	39(o) III	5000 DA 276	25-58-07 80-13-20	0.00	0.00 0.00
WPLG LIC	MIAMI FL	BLCT-2502	10(+) III	316 305	25-57-59 80-12-44	103.92	1.03 0.64
WPLG-DT CP	MIAMI FL	BPCDT-980629KG	9 III	15.8 294	25-57-59 80-12-44	103.92	1.03 0.64
DIGITAL TV							
WSVN LIC	MIAMI FL	BMLCT-850322KH	7(-) III	316 293	25-57-49 80-12-44	119.08	1.14 0.71
WSVN-DT CP	MIAMI FL	BPCDT-980723KF	8 III	14.4 291	25-57-49 80-12-44	119.08	1.14 0.71
DIGITAL TV, ERP AS SHOWN ON CP.							
WAMITV CP	HOLLYWOOD FL	BPCT-960708KG	69(o) III	5000 264	25-57-59 80-12-33	100.75	1.33 0.83
WBFSTV LIC	MIAMI FL	BLCT-850125KE	33(o) III	5000 DA 280	25-57-59 80-12-33	100.75	1.33 0.83
WSCV LIC	FORT LAUDERDALE FL	BLCT-891130KJ	51(o) III	5000 DA 262	25-57-59 80-12-33	100.75	1.33 0.83

WPBT	MIAMI	* 2(o)	100		25-57-30	138.82	1.52	0.94
LIC	FL BLET-841116KE	III	283		80-12-44			
WLRN-TV	MIAMI	*17(-)	2820	DA	25-57-30	138.82	1.52	0.94
LIC	FL BLET-930216KG	III	309		80-12-44			
WLRN-DT	MIAMI	*20	200	DA	25-58-46	65.23	2.88	1.79
CP	FL BPEDT-980211KE	III	302		80-11-46			
	DIGITAL TELEVISION							
WHFT	MIAMI	45(+)	2570	DA	25-59-34	60.77	5.51	3.42
CP	FL BPCT-931220KG	III	308		80-10-27			

\*\* End of TV Within Study \*\*

Although no adverse electromagnetic impact is expected, the applicant recognizes its responsibility to correct problems that result from its proposed DTV operation.

The WPXM transmitter site is more than 1,700 kilometers from the closest point of the Canadian border. The site is approximately 833 kilometers from the closest point of the Mexican border. The closest FCC monitoring station is at Vero Beach, Florida, approximately 187 kilometers to the north. The closest point of the National Radio Quiet Zone (VA/WV) is more than 1,200 kilometers to the north. The closest point of the Table Mountain Radio Quiet Zone (CO) is more than 2,700 kilometers to the northwest. The closest radio astronomy site operating on TV channel 37 is at Green Bank, West Virginia, more than 1,300 kilometers to the north. These separations are sufficient to not be a concern for coordination purposes.

#### Allocation Study

Figure 4 is the separation study for DTV channel 26 at the WPXM site. The study has been used to determine the assignments requiring interference studies using the



procedures outlined in the FCC's OET-69 bulletin.<sup>1</sup>

Interference calculations for the proposed WPXM DTV operation are summarized below.

Protected NTSC/DTV Station	FCC Service Population	Current Interf.	Proposed Interference Population	Proposed <b>UNIQUE</b> Interference Population*
WZVN-TV, NTSC-26, Naples, FL	624,539	0.0%	523 (0.08%)	--
WXEL-TV, DTV-27 Alt, W. Palm, FL	2,452,000	--	11,466 (0.47%)	--

\*Considers interference "masking" from other NTSC and DTV assignments.

The proposed WPXM DTV operation does not cause calculated interference to any other analog or DTV assignment.

Therefore, the proposal complies with the FCC's 2%/10% interference standard.

#### Radiofrequency Electromagnetic Field Exposure

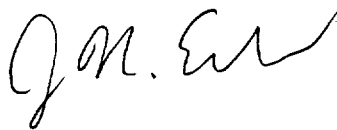
The proposed WPXM DTV facilities were evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. The radiation center for the WPXM DTV antenna is located 276.1 meters above ground level. The maximum DTV ERP is 200 kW. A conservative relative field value of 0.15 was assumed for the antenna's downward radiation (see Sheet 3 of Figure 2). The calculated power density at a point 2 meters (6.6 feet) above ground level is 0.0020 mW/cm<sup>2</sup>. This is less than 1% of the FCC's recommended limit of 0.36 mW/cm<sup>2</sup> for channel 26 for an "uncontrolled" environment. It is less than 0.2% of

<sup>1</sup> The duTreil, Lundin & Rackley, Inc. DTV interference analysis program is based on the program and procedures outlined by the FCC in the Sixth Report and Order; subsequent Memorandum Opinion and Order; and FCC OET Bulletin No. 69. A nominal grid size resolution of 1 km was employed. An Alpha based processor computer system was employed. The results have been found to be in very close agreement with the results of the FCC implementation of OET Bulletin No. 69.

the recommended limit of  $1.82 \text{ mW/cm}^2$  for a "controlled" environment.

Access to the transmitting site is restricted and appropriately marked with warning signs. As this is a multi-user site an agreement will control access to the site. In the event that workers or other authorized personnel enter restricted areas or climb the tower, appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure monitors or scheduling work when the stations are at reduced power or shut down. The proposed WPXM DTV operation appears to be otherwise categorically excluded from environmental processing.

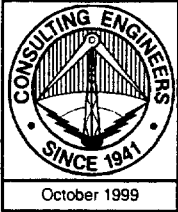
If there are questions concerning the technical portion of this application, please contact the office of the undersigned.



Jonathan N. Edwards

du Treil, Lundin & Rackley, Inc.  
201 Fletcher Avenue  
Sarasota, Florida 34237

October 19, 1999



Tower Reg. No. 1026553

319.7 m AMSL  
(1049 ft AMSL)

317.3 m  
(1041 ft)  
(existing)

Proposed WPXM-DT Antenna

Radiation Center:  
278.6 m AMSL  
(914 ft AMSL)

276.1 m  
(906 ft)

Site Coordinates:  
25° 58' 07" N  
80° 13' 20" W

2.4 m AMSL  
(8 ft AMSL)

## ANTENNA AND SUPPORTING STRUCTURE

STATION WPXM-DT

MIAMI, FLORIDA

CH 26    200 KW (MAX-DA)    279 M

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

# Dielectric

Date	14 Oct 1999	
Call Letters	WPXM-DT	Channel 26
Location	Miami, FL	
Customer	Paxson	
Antenna Type	TFU-18DSC P230	

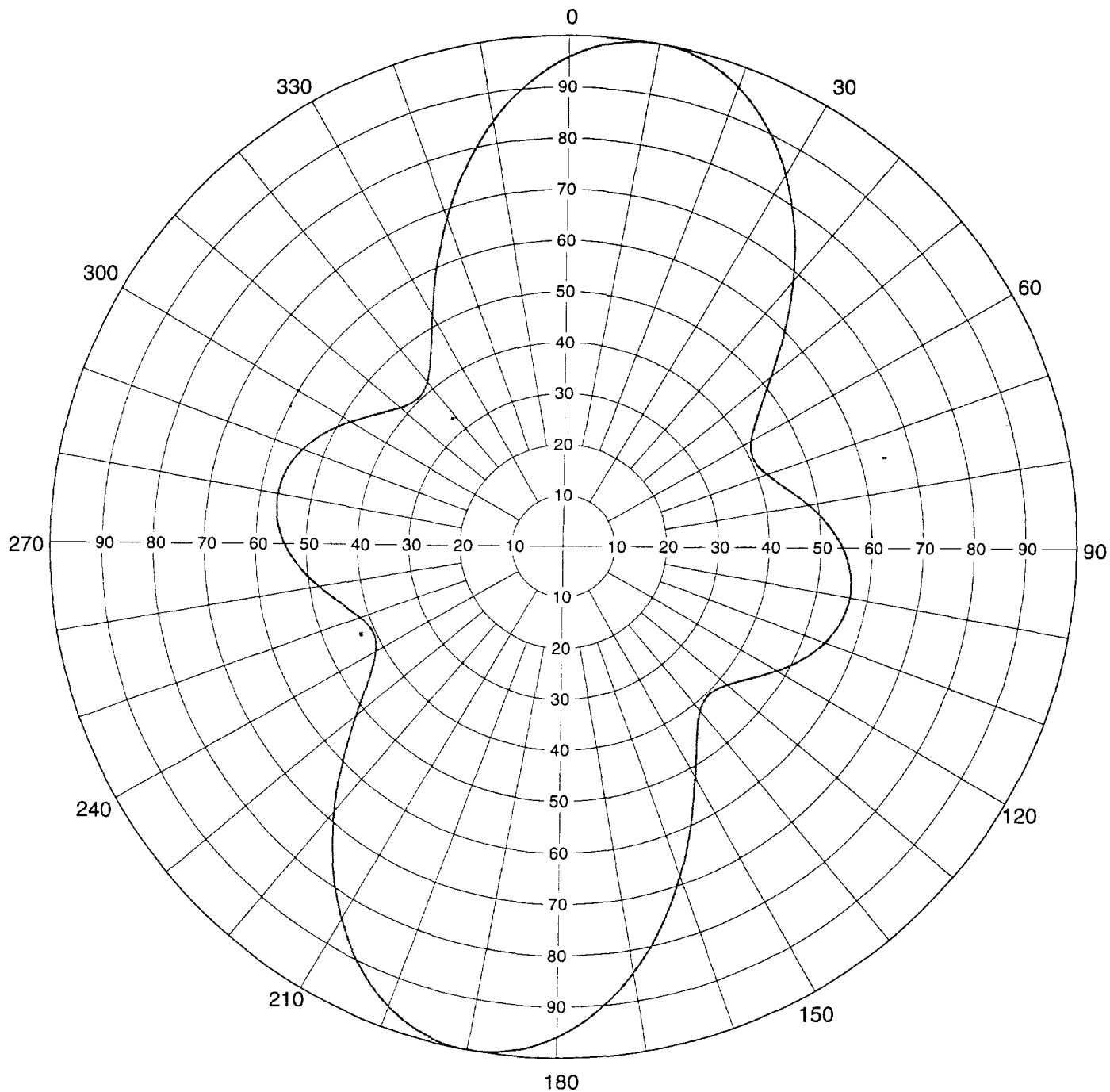
## AZIMUTH PATTERN

RMS Gain at Main Lobe  
Calculated / Measured

**2.30 (3.62 dB)**  
**Calculated**

Frequency  
Drawing #

**545 MHz**  
**P230**



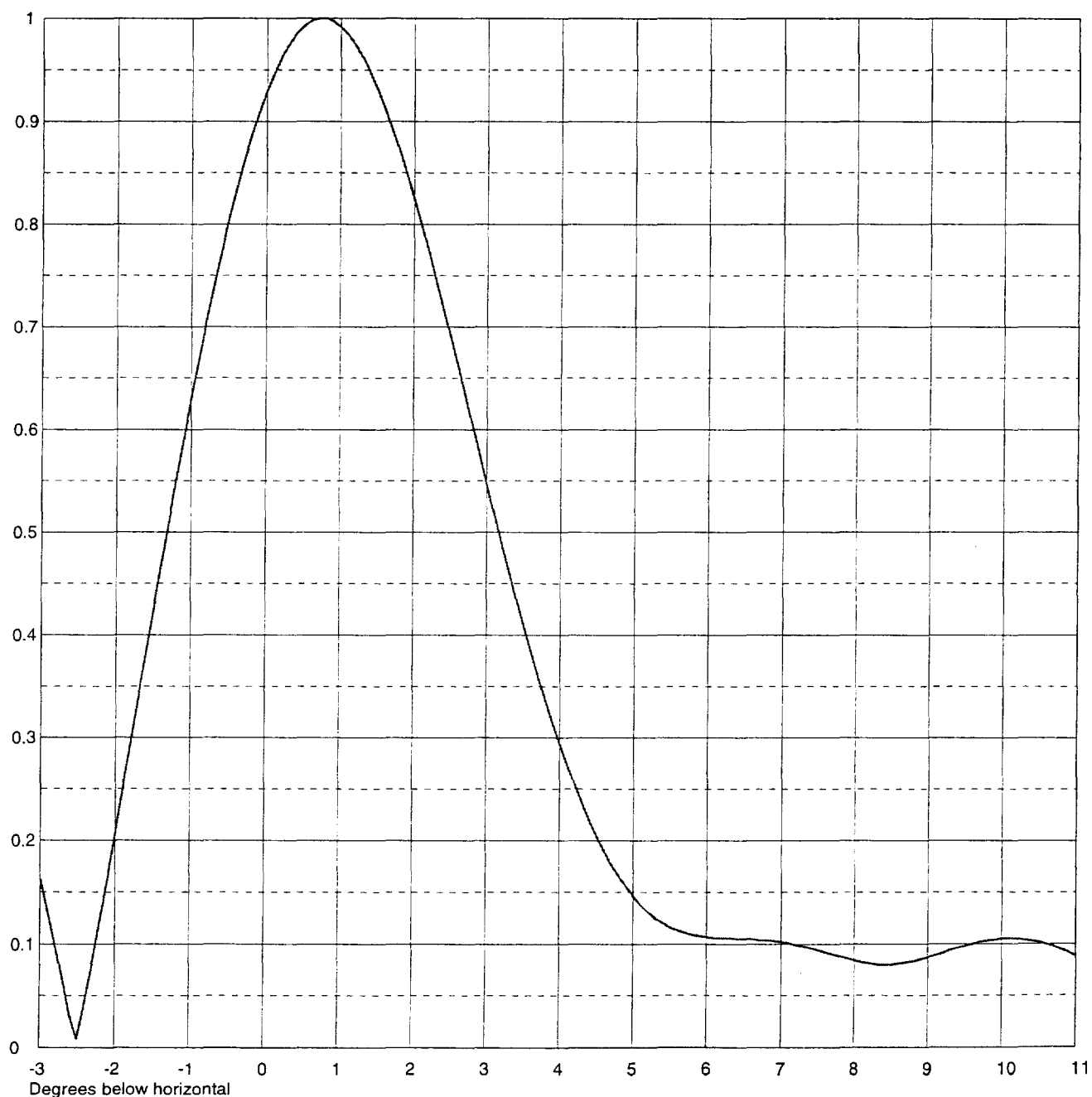
Remarks:

# Dielectric

Date	14 Oct 1999
Call Letters	WPXM-DT Channel 26
Location	Miami, FL
Customer	Paxson
Antenna Type	TFU-18DSC P230

## ELEVATION PATTERN

RMS Gain at Main Lobe	15.0 (11.76 dB)	Beam Tilt	0.75 Degrees
RMS Gain at Horizontal	13.0 (11.14 dB)	Frequency	545.00 MHz
Calculated / Measured	Calculated	Drawing #	18Q15007



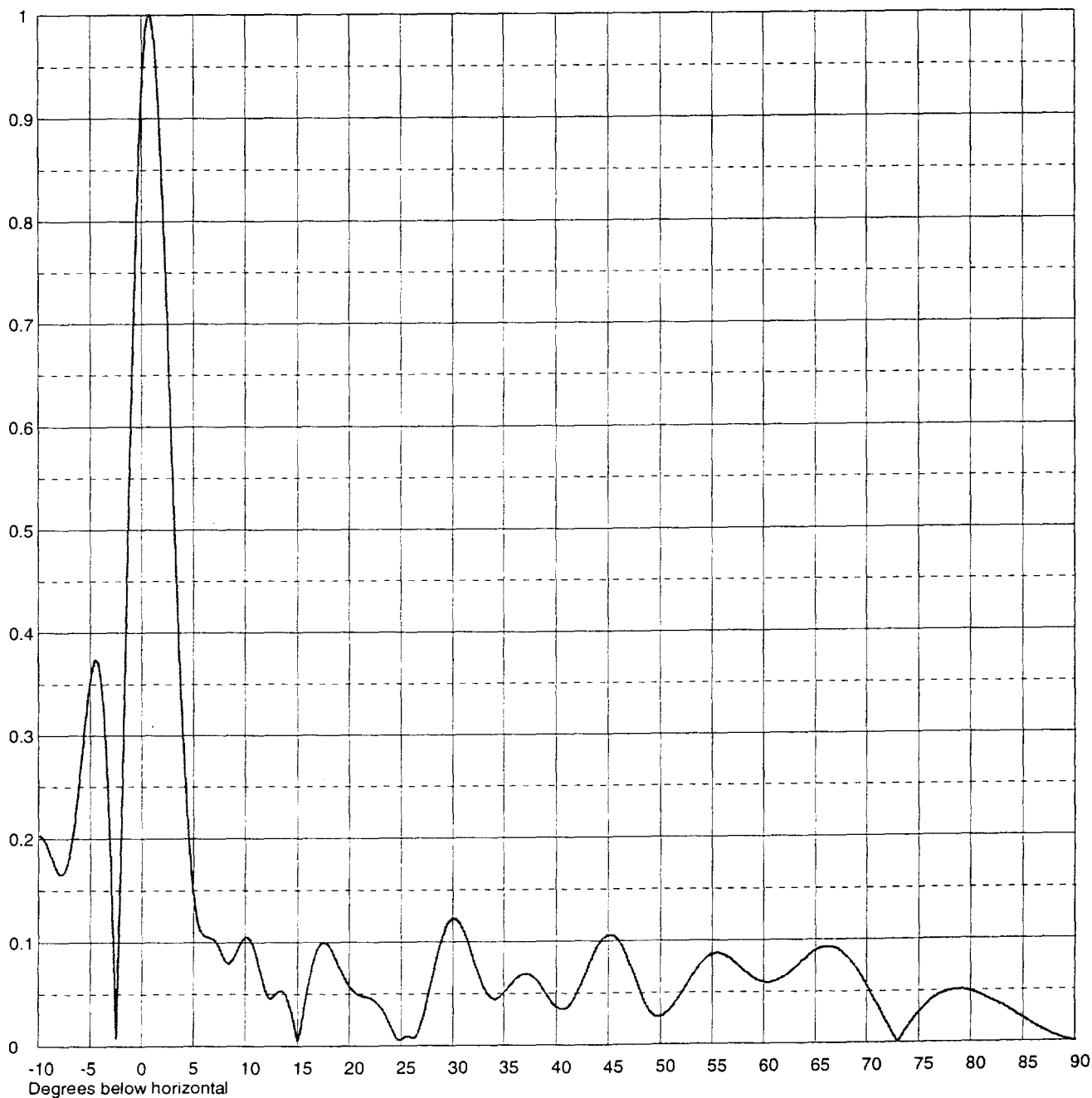
Remarks:

# Dielectric

Date	14 Oct 1999	
Call Letters	WPXM-DT	Channel 26
Location	Miami, FL	
Customer	Paxson	
Antenna Type	TFU-18DSC P230	

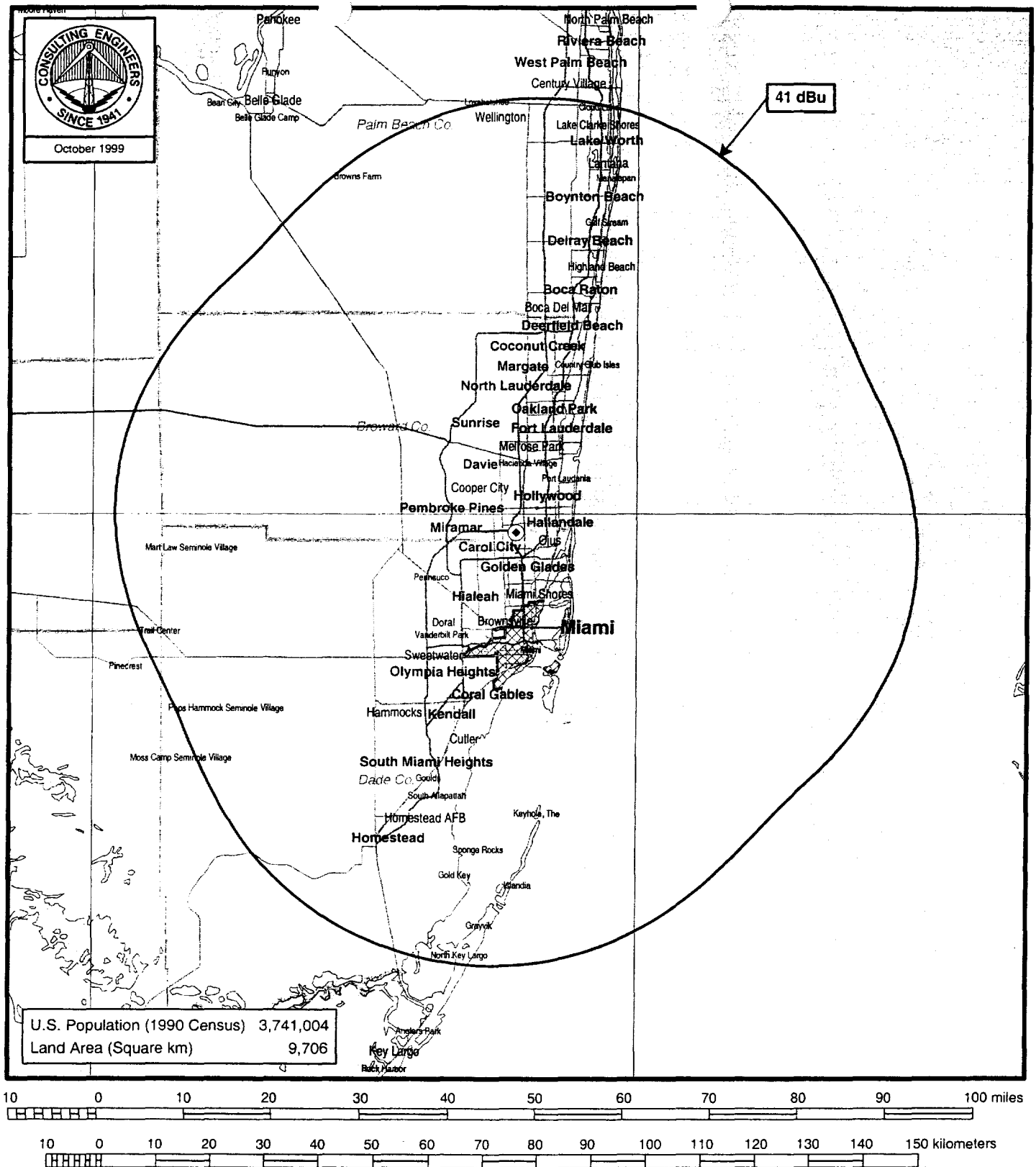
## ELEVATION PATTERN

RMS Gain at Main Lobe	15.0 (11.76 dB)	Beam Tilt	0.75 Degrees
RMS Gain at Horizontal	13.0 (11.14 dB)	Frequency	545.00 MHz
Calculated / Measured	Calculated	Drawing #	18Q15007-90



Remarks:

Figure 3



## **PREDICTED NOISE-LIMITED CONTOUR**

STATION WPXM-DT

MIAMI, FLORIDA

CH 26 200 KW (MAX-DA) 279 M

du Treil, Lundin & Rackley, Inc Sarasota, Florida

DTV -> TV Separation Study

Job Title : WPXM-DT  
 Zone : 3  
 Channel 26 (542-548 MHz)

Separation Buffer 161 km  
 FCC TV DB Date : 10/08/99  
 Coordinates : 25-58-07 80-13-20

Call Status	City St	FCC File No.	Channel Zone	ERP(kW) HAAT(m)	Latitude Longitude	Bear. True	Dist. (km)	Req. (km)
WEYS LIC	KEY WEST FL	BLCT-940114KJ	22(+) III	11.2 62	24-33-18 81-48-07	225.6	223.27 126.67	24.1/96.6 CLEAR
WLTW LIC	MIAMI FL	BLCT-950710KF	23(-) III	4470 DA 297	25-58-07 80-13-20	0.0	0.00 24.10	24.1/96.6 CLEAR
WPBF LIC	TEQUESTA FL	BLCT-890124KH	25(o) III	5000 DA 453	27-07-17 80-23-41	352.4	128.88 22.88	12.0/106.0 CLEAR
WPBF CP	TEQUESTA FL	BPCT-980610KE	25(o) III	5000 DA 455	27-07-17 80-23-42	352.4	128.88 22.88	12.0/106.0 CLEAR
WZVNTV LIC	NAPLES FL	BLCT-890711KI	26(-) III	5000 DA 368	26-25-22 81-37-49	290.1	149.47 -95.13	244.6 SHORT <sup>1</sup>
WNTD CP	DAYTONA BEACH FL	BPCT-960709KS	26(o) III	5000 DA 304	29-17-10 81-29-37	341.5	388.44 143.84	244.6 CLEAR
WNTD LIC	DAYTONA BEACH FL	BLCT-881026KF	26(o) III	2750 DA 304	29-17-10 81-29-37	341.5	388.44 143.84	244.6 CLEAR
CALL SIGN CHANGED FROM WAYQ EFFECTIVE 07-22-96.								
WFLX LIC	WEST PALM BEACH FL	BLCT-860514KH	29(+) III	5000 DA 457	26-34-37 80-14-32	358.3	67.44 -29.16	24.1/96.6 SHORT <sup>2</sup>
WFLX APP	WEST PALM BEACH FL	-990910AA	29(+) III	5000 DA 458	26-34-37 80-14-32	358.3	67.44 -29.16	24.1/96.6 SHORT <sup>2</sup>
WGCW LIC	FORT MYERS FL	BLET-830630KG	*30(o) III	1320 293	26-48-54 81-45-44	301.9	180.03 83.43	24.1/96.6 CLEAR
WFBSTV LIC	MIAMI FL	BLCT-850125KE	33(o) III	5000 DA 280	25-57-59 80-12-33	100.7	1.34 22.76	24.1/96.6 CLEAR
WTVX LIC	FORT PIERCE FL	BLCT-800624KF	34(o) III	5000 DA 454	27-07-20 80-23-21	352.7	128.90 32.30	24.1/96.6 CLEAR

\*\* End of TV Separation Study for Channel 26 \*\*

<sup>1</sup> Proposed DTV operation complies with FCC's 2%/10% interference policy using procedures outlined in FCC's OET-69 Bulletin.

<sup>2</sup> No calculated interference caused using FCC OET-69 Bulletin procedures.



DTV -> DTV Separation Study

Job Title :WPXM-DT  
Zone : 3  
Channel 26 (542-548 MHz)

Separation Buffer 161 km  
FCC DTV DB Date: 12/18/98  
Coordinates : 25-58-07 80-13-20

Call	City	Channel	ERP(kW)	Latitude	Bear.	Dist.	Req.
Status	St	FCC File No.	Zone	HAAT(m)	Longitude	True (km)	(km)
DWBSVTV	VENICE	25	55.5	27-06-01	301.0	248.21	24.0/110.0
DTVALT	FL	III	167	82-22-18		138.21	CLEAR
DWPXM	MIAMI	26	66.2	25-41-05	196.3	32.78	
DTVALT	FL	III	102	80-18-52			
DWXELTV	WEST PALM BEACH	27	50	26-34-37	358.3	67.43	24.0/110.0
DTVALT	FL	III	439	80-14-32		-42.57	SHORT <sup>1</sup>

\*\* End of DTV Separation Study for Channel 26 \*\*

TECHNICAL EXHIBIT  
APPLICATION FOR DTV CONSTRUCTION PERMIT  
STATION WPXM-DT  
MIAMI, FLORIDA  
CH 26      200 KW (MAX-DA)      279 M

Technical Specifications

Channel	26
Frequency	542-548 MHz
Proposed Site Coordinates (NAD 27)	25° 58' 07" North Latitude 80° 13' 20" West Longitude
Site Elevation above mean sea level	2.4 m
Average elevation above mean sea level of 8 equally spaced radials, 3-16 kilometers	0.0 m
Overall height of proposed antenna structure	
Above ground	317.3 m
Above mean sea level	319.7 m
Height of antenna radiation center	
Above ground	276.1 m
Above mean sea level	278.6 m
Above average terrain	279 m
DTV Transmitter	
Rated power output (average)	10 kW
Transmission line	Dielectric 562174
Nominal diameter	(4-1/16") 10.3 cm
Length	(1,000 ft) 305 m
Efficiency (1.57 dB loss)	69.6%
Antenna	Dielectric TFU-18DSC P230
Polarization	Horizontal
Peak Power Gain	34.5
Beam Tilt	0.75°
Main Lobes	10° & 190°T

Proposed Operation

Transmitter output power (average)	8.33 kW
Transmission line loss	2.53 kW
Antenna input power	5.80 kW
Effective Radiated Power (MAX-DA) (DTV average)	200 kW